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ROTHAMSTED RESEARCH

Yields of the Field Experiments 1993

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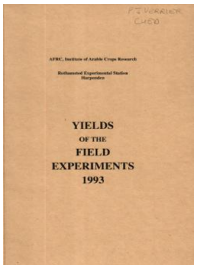

93/W/RAS/2 Sulphur and Nitrogen - S. Oilseed Rape

Rothamsted Research

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93/W/RAS/2

SPRING OILSEED RAPE

SULPHUR AND NITROGEN

Object: To determine the effects of different rates of sulphur and nitrogen fertilizer on the yield and sulphur content of s. rape - Woburn, School Field.

Sponsors: S.P. McGrath, F. Zhao, G.F.J. Milford, J. Fieldsend.

Design: 4 randomised blocks of 12.

Whole plot dimensions: 4.0 x 10.0.

Treatments: All combinations of:-

1. **N** Rates of nitrogen (kg N):

   50
   100
   150

2. **SULPHUR** Rates of sulphur (kg S):

   0
   10
   20
   40

Experimental diary:

17-Mar-93 : B : Ploughed.
24-Mar-93 : B : Treflan at 2.3 l in 200 l, rotary cultivated with crumbler attached, Starlight, dressed Lindex-Plus FS, drilled at 8 kg.
25-Mar-93 : **T** : **N** 50, 100, 150: Applied as 27% N.
15-Apr-93 : **T** : **SULPHUR** 10, 20, 40: Applied as gypsum (17.5% S).
04-Jun-93 : B : Decis at 0.50 l in 200 l.
04-Sep-93 : B : Combine harvested.

NOTE: Previous w. rape crop failed, experiment was resown to s. rape.

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93/W/RAS/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

***** Tables of means *****

SULPHUR N	0	10	20	40	Mean
50	3.94	3.70	3.68	3.78	3.78
100	4.39	4.23	4.19	4.03	4.21
150	4.14	4.23	3.95	4.40	4.18
Mean	4.16	4.06	3.94	4.07	4.05

*** Standard errors of differences of means ***

N	SULPHUR	N SULPHUR
0.117	0.135	0.234

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	33	0.332	8.2

GRAIN MEAN DM% 84.9

PLOT AREA HARVESTED 0.00176

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